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KANANASKIS COUNTRY INTEGRATED RESOURCE PLAN
ANNUAL REVIEW [1986-87]

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EASTERN SLOPES
RESOURCE MANAGEMENT
COMMITTEE

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Highlights

Eastern Slopes Region, Alberta Forestry, Lands and Wildlife

ANNUAL REVIEW

OF THE KANANASKIS COUNTRY INTEGRATED RESOURCE PLAN

The annual review for the Kananaskis Country Integrated Resource Plan summarizes progress to date on the plan's implementation. It is the first to be completed since the plan was approved in 1986 and covers 1986 to 1987. The following highlights have been taken from the annual review.

- The establishment of a number of natural areas throughout Kananaskis Country.

- The stocking of approximately 100 000 cutthroat, rainbow and lake trout throughout Kananaskis Country.

- The development of a wide range of environmental education and resource management education programs, particularly the initiation of the Jumping-pound demonstration forest.

- The completion of facilities for the 1988 Winter Olympic Games at Nakiska (alpine events) and the Canmore Nordic Centre (nordic events). These facilities were highly praised internationally.

- The development of Kananaskis Village at Ribbon Creek.

- The upgrading of a large number of trails throughout Kananaskis Country including bike paths and ski, hiking and equestrian trails.

- Range improvement has occurred in Kananaskis Country, demonstrating that wise range use is compatible with recreation.

PLAN IMPLEMENTATION

Recently the government outlined the basic policy under which ongoing management of integrated resource plans will occur. This document, although still in draft form, will be made available through the Regional Resource Co-ordinator to those who ask for it (his address is given at the end of this review). In addition, we have recently completed a document which outlines our method of achieving the plan (implementation) as well as our first annual review. It is the responsibility of the Kananaskis Country Interdepartmental Committee to implement the plan. The only significant change in the plan has been the opening of Highway 40 through Highwood Pass during the Olympics. During the opening, three elk were shot on the critical elk ranges near the Highwood Pass. The government's intention in the Highwood area is to give wildlife values high priority. Despite the unfortunate incident, it appears that mitigative measures used to ensure that elk

Alberta
FORESTRY, LANDS AND WILDLIFE

populations were not disturbed were largely successful. Nonetheless, it is the view of the committee that except during such events as the Olympics, the highway should remain closed (as stated in the plan) to preserve one of the largest elk overwintering areas in the province.

Other housekeeping amendments this year included:

1) A revision to Guideline 11 on page 86 to allow for expansion of government staff managing the Highwood RMA. Any expansion will be confined to the existing land reservation.

2) Those who have received the mineral resource summary are now out-of-date as numerous coal leases have been cancelled.

3) Oil and gas exploration and agreement dispositions are now covered under the plan and not in information letter 80-12 as referenced in the document.

COMMUNICATION

It is important that we who are involved in the day-to-day administration of the natural resources of this area, keep the lines of communication open. We will distribute this report to everyone who was involved in the Kananaskis Country Integrated Resource Plan Public Involvement Program. Also, we have developed an in-depth annual review which gives details of our activities in this area during the last year or so. This will be made available at the following:

1) Turner Valley Ranger Station
2) Bow/Crow Forest Headquarters in Calgary
3) Canmore Town Office
4) Rocky Mountain House
   Provincial Building
   1st Floor
   Regional Co-ordination Services

In addition, the report will be available through the information Centre in Edmonton(427-3590) and in Calgary.

We ask you to review this report and give us your comments as to its format or content. This is the same document which has been sent to our senior management in Edmonton. No editing of the report for public use has occurred.

If you are unable to visit the above offices, we ask that you request a copy of the review through the Regional Resource Co-ordinator (address is given below).

Mr. Cam McGregor
Eastern Slopes Regional Resource Co-ord.
Box 1598
Rocky Mountain House, Alberta T0M 1T0

Telephone: (403) 845-8245

Please contact Cam if you would like to receive future copies of this publication.

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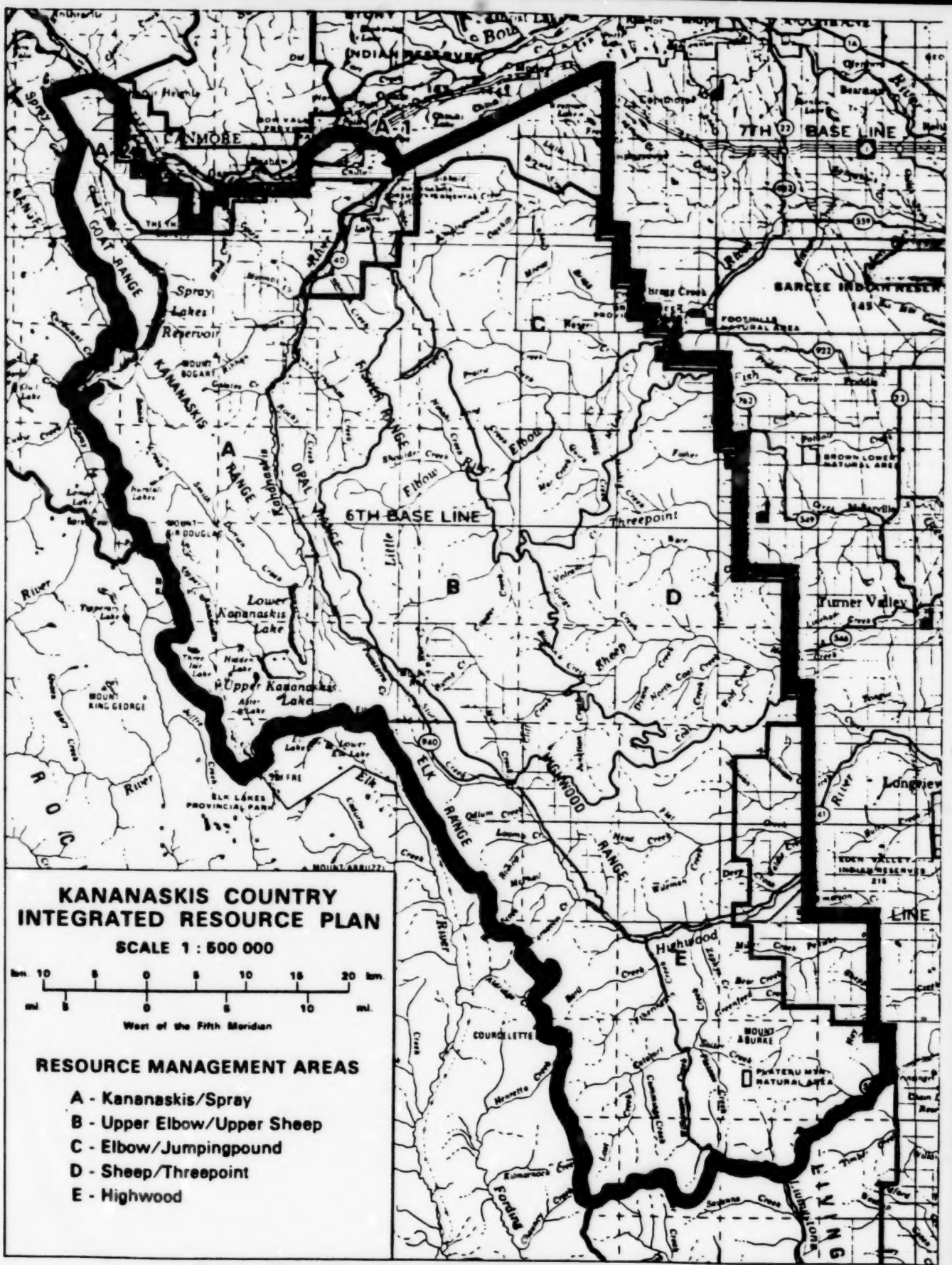

Figure 1 **Resource Management Areas of Kananaskis Country.**

1. INTRODUCTION

This report summarizes progress to date in the implementation of the Kananaskis Country Sub-regional Integrated Resource Plan. The plan was approved by Cabinet on March 4, 1986. This is the first annual review to be completed since its approval and covers the years from 1986 to 1987. It is the responsibility of the Kananaskis Country Interdepartmental Committee to implement the plan.

It identifies projects which have been completed, projects which have not been completed (and why) and provides some direction for what is to be done over the next year.

The report is intended for use by senior management within the Alberta Government as well as the ultimate users of our service, the public of Alberta.

The resource sectors contained within the plan have been used to identify projects which have been undertaken or will be undertaken so that the plan may be accomplished. These have been documented in terms of management intent, results expected, results achieved and anticipated activities over the coming year. Geographic location of activities in the planning area are given by resource management area(RMA) in Figure 1.

It is hoped the publication of this document on an annual basis will initiate 'ong term dialogue over the management of this area.

2. ECOLOGICAL, NATURAL AND CULTURAL RESOURCES

The requirement for management of these resources is widely based in provincial and federal legislation (e.g. Wilderness Areas, Ecological Reserves and Natural Areas Act, Alberta Provincial Parks Act, Alberta Environment Act, etc). The management responsibility of significant ecological resources is dependent on the land administration responsibility and legislation. Alberta Forest Service and Alberta Recreation and Parks are the major agencies involved.

A) INVENTORY

MANAGEMENT INTENT

An inventory of ecological resources will be prepared for use during operational programs.

RESULTS EXPECTED	RESULTS ACHIEVED
Establish an inventory of special features and plan for the protection of resources.	An inventory of geologic and geomorphic resources was collated for Peter Lougheed Provincial Park. Appropriate sections of a Resource Management Plan have been drafted.

ANTICIPATED ACTIVITIES(1988/89)

All resource sectors will be reviewed for the park and used to prepare a complete plan. A comprehensive geomorphic map will be drafted in 88/89. Similar work is ongoing for Bow Valley Provincial Park.

B) PRESERVATION

MANAGEMENT INTENT

To establish a series of ecological reserves and natural areas to represent Alberta's Alpine Natural Region.

RESULTS EXPECTED	RESULTS ACHIEVED
- Ecological reserves and natural area designation.	- The Plateau Mountain area (RMHE) has been established as a natural area and is being considered as an ecological reserve candidate. - The following areas are candidates for natural areas: Macabbe Creek - RMA D Moose Mountain - RMA C Mt. Lorette - RMA A Pigeon Mountain - RMA A - Information on geology, soils, vegetation and climate was collated for Plateau Mountain.

ANTICIPATED ACTIVITIES(1988/89)

Public meetings for Proposed Plateau Mountain Ecological Reserve.

3.0 FISHERIES

The fisheries resource area is managed to support a variety of recreational opportunities by:

a) maintaining or increasing natural fish populations;
b) establishing new populations in suitable areas;
c) protecting or enhancing habitat;
d) providing suitable access; and
e) establishing and satisfying user demand.

The resource is managed by the Alberta Fish and Wildlife Division. Results have been reported for the 1987/88 year only.

A) HIGH MOUNTAIN LAKES PROGRAM

MANAGEMENT INTENT

To provide a quality "backcountry" fishing experience. Efforts will be directed toward identifying new lakes for expanding opportunities and maintaining undeveloped access.

RESULTS EXPECTED	RESULTS ACHIEVED
- Phase II inventory on Lo : Tombstone Lake.	- Inventory on Lower Tombstone Lake completed. Determined that a self-sustaining population of cutthroat trout is established.
- Evaluation on the suitability of spawning habitat in the outlets of five high mountain lakes.	- Evaluation completed on outlets. Determined that low water temperature may be limiting factor for two of the outlets.
- Voluntary creel survey on 18 high mountain lakes.	- Creel survey completed. Report in preparation.
- Evaluation of golden trout plants on Invincible and Shark lakes.	- Evaluation completed on golden trout plants. Determined that plants were unsuccessful.

ANTICIPATED ACTIVITIES(1988/89)

- Complete Phase II inventory on Stenton Lake.
- Continue creel survey on high mountain lakes.

B) FISHERIES MANAGEMENT PROGRAM

MANAGEMENT INTENT

To establish an optimal level and diversity of recreational angling opportunities. Efforts will be directed toward completing inventories on streams and lakes. Inventories will obtain population estimates, identify key habitat sites (spawning, rearing and overwintering areas) and collect water quality information.

RESULTS EXPECTED	RESULTS ACHIEVED
- Evaluation of the impact of new sportfishing regulations of fisheries.	- Data collected on Quirk Creek for evaluating changes in fishery due to new regulations.
- Evaluation of cutthroat trout plants in six streams.	- Three streams evaluated. Determined plants had survived in two of these streams but no evidence of natural reproduction detected.

- Evaluation of trout reproduction in the Kananaskis watershed beaver dams.	- Partial inventory completed on a portion of the beaver ponds.
- Completion of Phase 11 inventory on five	- Phase 11 inventories completed on the five streams.
- Evaluation on the effectiveness of enhancement done on Elbow and Hogarth Lakes.	- Brook trout from Elbow Lake sampled. Hogarth Lake spawning beds examined. Determined project was successful.

ANTICIPATED ACTIVITIES(1988/89)

- Continue evaluation of new sportfishing regulations.
- Evaluation of cutthroat trout plants in five streams.
- Complete evaluation of brook trout reproduction in beaver ponds.
- Conduct Phase 11 inventories in four lakes and three streams.
- Continue evaluation of Elbow Lake enhancement.

C) TROUT STOCKING PROGRAM

MANAGEMENT INTENT

To provide sportfishing opportunities in areas where trout do not occur naturally or cannot maintain themselves by natural reproduction. Some species such as lake or cutthroat trout will be planted as introductions to extend the range of these species as self-sustaining populations.

RESULTS EXPECTED	RESULTS ACHIEVED
- Stocking of various lakes and beaver ponds within Kananaskis Country.	- Approximately 17,000 cutthroat trout were stocked in 16 high mountain lakes.
	- Approximately 58,600 rainbow trout were stocked in 14 lakes, 26,500 lake trout stocked in Spray Lakes Reservoir, 13,700 arctic grayling in three lakes, and 4,500 rainbow trout in 36 beaver ponds. Thirty of the beaver ponds were stocked for the first time thereby creating new fisheries.

ANTICIPATED ACTIVITIES(1988/89)

Continue stocking of various lakes and beaver ponds.

D) FISHERIES HABITAT ENHANCEMENT PROGRAM

MANAGEMENT INTENT

To increase fish populations and recreational angling opportunities. Effort will be placed on identification, development and implementation of projects through Buck for Wildlife funding and through government and/or industrial projects.

RESULTS EXPECTED	RESULTS ACHIEVED
Completion of Buller Pond deepening project.	Buller Lake project is under way and should be completed by March 1988.
Inspection and maintenance as required, on all water projects in Kananaskis Country licensed to Fish and Wildlife.	Inspections and maintenance completed.

ANTICIPATED ACTIVITIES(1988/89)

Annual inspections and maintenance of control structures.

Other Fisheries Habitat Enhancement projects as identified over the next 6 months.

4.0 INTERPRETATION & ENVIRONMENTAL EDUCATION

Alberta Recreation and Parks, Alberta Fish and Wildlife and the Alberta Forest Service provide interpretive programs at sites in Kananaskis Country. Recreation and Parks maintains an environmental education program to assist teachers.

A) ENVIRONMENTAL EDUCATION PROGRAMS

MANAGEMENT INTENT

To foster environmental education by school boards using Kananaskis Country.

RESULTS EXPECTED	RESULTS ACHIEVED
Establish a number of environmental education sites with detailed resource information for instructional purposes.	Manuals of 20 sites were prepared and distributed to schools and other libraries for use by teachers organizing field trips. Program materials were also devloped.

B) RESOURCE MANAGEMENT EDUCATION

MANAGEMENT INTENT

To promote public understanding of resource management and identify agencies involved in Kananaskis Country.

RESULTS EXPECTED	RESULTS ACHIEVED
a) Maintain existing level of resource management education services of Kananaskis Forest Experimental Station (KFES).	Interpretive trail at KFES was upgraded with new interpretive signs. Existing levels of use were maintained and visitor services were provided to schools and the general public.
b) Develop resource management facilities including interpretive trails, exhibits and day use.	

ANTICIPATED ACTIVITIES(1988/89)

a) Maintain existing level of visitor services at KFES.

b) Open Jumpingpound Demonstration Forest May 2, 1988. This demonstration forest will provide visitors with a self-guided driving tour, interpretive centre, day-use area and walking trails. Forest management techniques will be demonstrated.

5. RECREATION AND TOURISM

Government agencies and private organizations are involved in designing and developing recreation/tourism facilities. Although major funding has ended with the Olympic developments and Kananaskis Village, small developments and upgrading will occur. Alberta Recreation and Parks is responsible for managing recreation facilities. Alberta Tourism is responsible for providing business incentives and advice. Alberta Public Works, Supply and Services is responsible for major construction. The Alberta Forest Service is active in backcountry management and has the mandate for managing commercial recreation activities such as trail riding.

A) PRIVATE SECTOR DEVELOPMENTS AND OPERATION

MANAGEMENT INTENT

To develop recreation and tourism facilities that fit the theme of Kananaskis Country and to provide private sector opportunities to develop and/or operate public facilities.

RESULTS EXPECTED	RESULTS ACHIEVED
Completion of facilities for the 1988 Winter Olympic Games at Nakiska (alpine events) and the Canmore Nordic Centre (nordic events).	Completion of facilities commended as the best in the Winter Olympics' history.
Development of a Kananaskis Village at Ribbon Creek.	Complete.
The development of residences for essential commercial staff.	Staff housing for the Kananaskis Village has been completed. Loop 2 of the Kananaskis Golf Course housing is nearing completion.

ANTICIPATED ACTIVITIES(1988/89)

A private campground proposal for Bow Valley south is under review.

Additional hiking and ski trails for the Kananaskis Village are approved.

Completion of Loop 2 golf course housing.

Completion of a tournament building at the golf course.

B) PUBLIC FACILITIES AND OPPORTUNITIES

MANAGEMENT INTENT

To provide a wide range of high quality, accessible and affordable recreation opportunities.

RESULTS EXPECTED	RESULTS ACHIEVED
Provision of recreation facilities to complement existing developments in the surrounding area.	
RMA A - Bow Valley South development.	RMA A - Partial development of Bow Valley South Group Camp.
- Administrative and residential development of essential government staff.	- Watridge Lake Trail rerouted past the lake to Banff National Park.
- William Watson Lodge expansion.	- Emergency Services Centre has been constructed for AFS, RCMP, R&P and ID 5 Fire Department at Ribbon Creek.

- 8 km of ski trails have been developed near the Kananaskis Village.

- A fish pond/day use site was built to reclaim a former construction site at Ribbon Creek.

- Four new cabins were finished at William Watson Lodge.

- Bike paths were upgraded in Peter Lougheed Provincial Park.

- Ski trail river crossings were upgraded in Peter Lougheed Provincial Park and new trails developed in the Smith Dorrien and Tent Ridge areas.

- A bike path has been constructed in Bow Valley Provincial Park.

RMA C
- Completion of hiking/equestrian trails (Tom Snow - 4.3 km, Cox Hill Ridge - 1.5 km, Powderface Ridge - 2.2 km).

RMA D
- A new administration compound with seasonal staff housing has been completed near Long Prairie Creek.

- Completion of hiking/equestrian trails (South Gorge Creek - 2.3 km, upgrade of South Gorge Creek - 4 km, reconstruction of Prairie View -3.2 km).

RMA E
- Highwood Junction Travel Centre.

RMA E
- Existing snowmobile trails in Cataract are being upgraded.

- A travel information centre and staff housing have been completed at Highwood House.

ANTICIPATED ACTIVITIES(1988/89)

RMA D

Complete landscaping at new Sheep Range Station at Long Prairie Creek.

RMA E

Continue to upgrade Cataract snowmobile trails.

C) PUBLIC INFORMATION

MANAGEMENT INTENT

To provide information on recreation and tourism opportunities.

RESULTS EXPECTED	RESULTS ACHIEVED
Provision of personal contacts at travel information centres and distribution of brochures at administration and agency offices.	Brochures for hiking, skiing, safety, etc., are provided. Information centres at Barrier Lake, Gooseberry, Bow Valley, Peter Lougheed, Elbow Ranger Station, Canmore, Bow Crow and Calgary offices form the major distribution service and provide personal contacts.

D) USER CONFLICTS

MANAGEMENT INTENT

Recreational activities that conflict with other recreational uses may have specific areas set aside for that use.

RESULTS EXPECTED	RESULTS ACHIEVED
Designation of specific areas for motorized Vehicle use.	Forest land use zones established in October 1979, and facilities constructed to permit off-highway vehicle activity. McLean Creek Off-Highway Vehicle FLUZ 180+ km trails c/w trailhead staging area. Sibbald Snow Vehicle FLUZ 35+ km trails C/W trailhead staging area. Cataract Snow Vehicle FLUZ 100+ km trails c/w trailhead staging area. Regular patrols carried out to ensure public compliance with FLUZ regulations, and thereby minimize user conflicts.

E) USER SAFETY

MANAGEMENT INTENT

To activate a public safety program.

RESULTS EXPECTED	RESULTS ACHIEVED
To develop a plan for and information on public safety issues.	A study of rockslides was prepared for most of RMA A. A map outlining areas of instability and rockslides was prepared A map of river hazards for the Elbow River is in the drafting stage. An atlas of avalanche paths and zones has been collated.

ANTICIPATED ACTIVITIES(1988/89)

A long term trail development plan is being prepared.

A map of river hazards for the Kananaskis River will be drafted.

Additional avalanche path mapping will be conducted.

F) VISITOR STATISTICS

MANAGEMENT INTENT

To determine the numbers of visitors (overnight and day only).

RESULTS EXPECTED	RESULTS ACHIEVED
To determine the numbers of campers and related information at each auto access, group camp, and backcountry campground, and Wm. Watson Lodge.	Overnight visitation and related information was collected and is reported through the Park User Statistics Report.
To determine the numbers of day visitors and related information for each drainage area.	Day visitor and related information on activities was collected at exit points.
To determine numbers of visitors to each facility and trail use.	Facility use was collected at each facility. Additional road counters have been installed. Transportation route use is sampled and modelled by Alberta Transportation. Additional

counters and monitoring were conducted for the short term opening of the Highwood Pass section of Highway 40.

ANTICIPATED ACTIVITIES(1988/89)

Exit surveys will be repeated for certain days to raise the confidence levels and to determine the effects of major developments.

G) IMPACT

MANAGEMENT INTENT

To manage recreation impacts at designated backcountry campgrounds and random use sites.

RESULTS EXPECTED	RESULTS ACHIEVED
Inventory impact sites and revegetate or otherwise rehabilitate sites.	An inventory of random use sites has been collected and is updated regularly.
Institute a regular maintenance program.	Clean-up of numerous backcountry campsites.

H) COMMERCIAL RECREATION

MANAGEMENT INTENT

Opportunity for private sector to provide services compatible with the natural quality and recreational intent of Kananaskis Country.

RESULTS EXPECTED	RESULTS ACHIEVED
Issuance of permits for operators to offer service.	1986 Number of permits issued: 5 Number of trips conducted: 47 Number of visitor nights: 7,639 1987 Number of Permits issued: 6 Number of trips conducted: 46 * with 2 permittees -figures unavailable Number of visitor nights: 13,409.5 * with 2 permittees - figures not available

ANTICIPATED ACTIVITIES

Continuation of permit issuance. Monitoring of use.

ANTICIPATED ACTIVITIES(1988/89)

Further inventory and maintenance will occur annually.

Continue clean-up program.

6. RANGE RESOURCES

The range resources on the Forest Reserve in Kananaskis Country are divided into 17 grazing allotments. At present there are 69 permittees who run cattle on these allotments. The Alberta Forest Service has the mandate for managing cattle grazing on the range resources in Kananaskis Country.

A) LIVESTOCK MANAGEMENT

MANAGEMENT INTENT

To manage domestic livestock to achieve uniform forage use, maintain healthy range condition and intensify range management practices.

RESULTS EXPECTED	RESULTS ACHIEVED
Update range allotment management plans for 17 allotments in Kananaskis Country.	Range surveys and draft management plans are completed for the following allotments: South Sheep, North Sheep, Highwood, Willow Creek, Sullivan Flat, Cataract, McLean Creek and Fish Creek. Elbow, Jumpingpound and Bragg Creek allotment plans are completed and endorsed.

ANTICIPATED ACTIVITIES(1988/89)

Monitor and assess range conditions and management practices.

Review and update management plans.

B) STOCKING LEVELS

MANAGEMENT INTENT

Maintain the 1977 stocking levels.

RESULTS EXPECTED	RESULTS ACHIEVED
Identify sites suitable for range improvement. (approx. 4,500 to 6,000 acres required).	Range improvement work.
Initiate improvements.	RMA B&D South Sheep: 370 ha cleared, 370 ha of windrows burned, 254 ha of re-piles burned, 47 ha drag scarified.
Establish long term maintenance program.	RMA C&D North Sheep: 215 ha cleared, 215 ha of windrows and re-piles burned, 83 ha gyro-mowed to control suckering, 181 ha treated with herbicide to control suckering.
	RMA E Willow Creek: 325 ha cleared, 325 ha of windrows and re-piles burned, 17 ha disced, 51 ha drag treated to control suckering.
	RMA C McLean Creek: 15 ha cleared, windrows and re-piles burned, 15 ha treated with herbicide to control suckering.
	RMA D Fish Creek: 104 ha cleared, windrows and re-piles burned, 104 ha treated with herbicide to control suckering.
	RMA C Jumpingpond: 33 ha cleared and piles burned.

ANTICIPATED ACTIVITIES(1988/89)

Monitor stocking rates and assess range condition.

Continue with improvements.

Continue with maintenance program to control suckers.

C) WEED CONTROL

MANAGEMENT INTENT

To control weeds under the Weed Control Act and weeds causing range problems.

RESULTS EXPECTED	RESULTS ACHIEVED
Inventory weeds on roadways, recreation facilities, government facilities and disposition lands inventoried. Noxious, nuisance and range-land weeds to be controlled.	Weeds on roadways, recreation facilities and some government facilities were controlled. Rangeland weeds were suppressed in RMA C and inventoried in RMA E. An ID 5 Weed Inspection Program was initiated and inventory of disposition lands was formally undertaken. A joint agency committee was continued to assist in communication on weed control.

ANTICIPATED ACTIVITIES(1988/89)

The ID 5 Weed Inspection Program will continue to inventory disposition lands and notify occupants of weeds. Work by Alberta Transportation and Kananaskis Country will continue. Alberta Forest Service will increase its efforts on controlling noxious weeds.

7. RESEARCH

Two universities maintain research field stations (Kananaskis Centre for Environmental Research and R.B.Millar Research Station) which attract numerous researchers from Alberta and other provinces/countries. In addition, the Geological Survey of Canada is very active in this area. Numerous conferences use Kananaskis Country for field trips. Research permit systems are required by legislation for Alberta Fish and Wildlife, Alberta Recreation and Parks, Alberta Culture and Multiculturalism and the Alberta Forest Service. Certain federal agencies also maintain permit systems.

A) ENCOURAGEMENT OF RESEARCH

MANAGEMENT INTENT

To facilitate and encourage research by university and government.

RESULTS EXPECTED	RESULTS ACHIEVED
Joint effort to assist researchers obtaining information on Kananaskis Country.	A computerized bibliography for a microcomputer has been developed. It contains references pertaining to Kananaskis Country produced by researchers and government departments.

ANTICIPATED ACTIVITIES(1988/89)

Distribution to government offices and universities, with periodically updated data bases.

B) GUIDELINES

MANAGEMENT INTENT

Guidelines and scientific study referrals will be used to ensure compatibility with management intent and zoning.

RESULTS EXPECTED	RESULTS ACHIEVED
Appropriate permits and guidelines issued.	A document providing information on the legislation and agency permit procedures was developed and issued.

ANTICIPATED ACTIVITIES(1988/89)

Agencies will continue to operate the necessary permit systems.

8. TIMBER RESOURCES

Maintenance of the forest land base and annual allowable cut of the planning area are the responsibility of the Alberta Forest Service. The responsibility also includes forest protection (against fire, insects and disease), reforestation and the administration of public land use throughout the forested portions of the planning areas.

A) REFORESTATION

MANAGEMENT INTENT

Reforestation of all lands which are in the sustained yield timber land base.

RESULTS EXPECTED	RESULTS ACHIEVED
To reforest all cut over areas in accordance with Provincial regulations.	Cutblocks in B5-L7 which were harvested in 1986 have been scarified by Spray Lakes. Sawmills (1980) Ltd.

ANTICIPATED ACTIVITIES(1988/89)

The 19 cutblocks which were harvested in B1-P33 and B1-P32 Jumpingpound in 1986 and 1987 are to be scarified this summer and fall.

Cutblocks in the west half of Spray Lakes license which were harvested in 1982 will be scarified this summer and fall.

With completion of the above all outstanding reforestation work will be current.

B) HARVESTING

MANAGEMENT INTENT

1) Logging activity through forest management plans will be integrated with other land use activities such recreational developments, watershed management, range improvement, or fish and wildlife habitat improvement.

2) Landscape logging and other aesthetic harvesting practices will be employed.

3) Harvesting will be done in a manner that will not be detrimental to forage production or livestock management.

RESULTS EXPECTED	RESULTS ACHIEVED
1) Maintenance of the annual allowable cut.	CTL B070005 completed; an estimated 36,889m3 harvested. Meetings were held with timber operator to identify which haul roads, trails, etc., which wi be left to integrate with the existing trail sectior in the area.
2) Aesthetic integration of cut blocks (modelling).	Miscellaneous timber use areas have been cruised and layouts done with consultation with the Landsca Forester.

ANTICIPATED ACTIVITIES(1988/89)

Any logging operations which may occur will have layout input from A.F.S. Landscape Forester.

C) PROTECTION

MANAGEMENT INTENT

To protect the forest from fire, insects and disease.

RESULTS EXPECTED	RESULTS ACHIEVED
1) Adherence to a comprehensive fire management plan.	1)In the five year period 1980-85 there were 109 fires. Total acreage lost was 156.7 (Avg. 31.3 acres/year). For the years 1986 and 1987 there were 24 fires resulting in 134.4 acres being burned (Avg. 67.2 acres/year). The most acreage lost in 1986 and 1987 was due to winter fires (131 acres). Chinook winds had removed that little snow that had fallen and summer/fall precipitation was well below normal. It should be noted that all fire escapes were due to extreme winds (100+km/hr).
2) Inventory and monitoring of insect and disease, particularly Mountain Pinebark Beetle (MPB).	2) 1986: 600MPB baits set out - 2287 individual attacks. 1987: 150MPB baits set out - 6000 individual attacks. Results show trend is increasing.
3) Treatment of infected areas.	3) All infested trees were either removed (heavily attacked trees)) or infested areas debarked and the bark disposed of.

ANTICIPATED ACTIVITIES(1988/89)

1) Starting winter of 1987/88 Fire Protection is increasing detection, prevention and suppression activities to curtail losses during winter months.

2) Continuation of monitoring program for MPB in 1988.

9. WATER RESOURCES

Water resource management is the responsibility of Alberta Environment. All water uses are regulated by the department. Land use activities are monitored and managed by the Alberta Forest Service and Alberta Recreation and Parks to ensure the integrity of the watershed is maintained. Activities causing soil erosion are of principal concern.

A) FLOW FORECASTING AND FLOOD PROTECTION

MANAGEMENT INTENT

To prevent erosion and flooding of facilities and reduce sedimentation of streams.

RESULTS EXPECTED	RESULTS ACHIEVED
Flood prediction and flow forecasting of the South Saskatchewan Basin.	New near-real-time climate stations (GOES) have been established. River flow forecasts are prepared monthly
An assessment and protection plan for major and minor water erosion and flooding sites along the Bow River and other minor streams.	Major assessments for White Fish day use, Bow River campground, Three Sister's campground,

Kananaskis Golf Course, Lower Lake day use, Pocaterra group camp and King Creek compound were carried out by river engineering consultants in 1985 and 1986.
Riprapping of White Fish day use and Lower Lake day use areas was completed.

River flooding protection of the golf course was initiated

ANTICIPATED ACTIVITIES(1988/89)

Small engineering reviews will be conducted for feasibility prior to permit application.

B) POINT SOURCE MANAGEMENT

MANAGEMENT INTENT

Maintenance of water quality. Monitoring of point source sedimentation in McLean Creek OHV Land Use Zone.

RESULTS EXPECTED	RESULTS ACHIEVED
Control of stream sedimentation from point sources.	None.

ANTICIPATED ACTIVITIES(1988/89)

Monitor possible sediment point sources in McLean Creek OHV area depending on equipment and manpower.

C) RECLAMATION

MANAGEMENT INTENT

Maintenance of water quality. Minimizing upland soil erosion and stream sedimentation.

RESULTS EXPECTED	RESULTS ACHIEVED
Projects identified annually based on District and public priorities.	Alberta Heritage Savings and Trust Funded project. Raspberry Ridge trail completed 10/24/86.
Land use disturbances are reclaimed to non-eroding status. Projects meet other agency requirements, e.g., leave foot trail.	Abandoned Mill site completed 09/26/86. Old Haul Roads - Spray Lakes completed 10/24/86. Pigeon Mountain/Prairie Bluff trail completed 10/25/86.

ANTICIPATED ACTIVITIES(1988/89)

Dependent on AHSTF funding.

Reclaim trails etc., at Marmot Basin Watershed Study Site,

Refertilize and seed Barrier Dam borrow Pit.

Recontour old trunk road behind Wasootch repeater.

Complete slash pile burning on Old Haul Roads - Spray Lakes.

D) WATER YIELD MODELLING.

MANAGEMENT INTENT

Maintenance or improvement of water quality, quantity and flow regime.

RESULTS EXPECTED	RESULTS ACHIEVED
Forests will be managed so that timber removal will not have an adverse effect on streamflows.	Not accomplished yet.

ANTICIPATED ACTIVITIES(1988/89)

The WRENSS water yield simulation model will be put on the Forest Land Use GIS system and all harvest operations will be simulated to ensure water yields are maintained or increased.

10. LAND USE

Land use is a commonly used term for all activities which relate to the administration/management of resource users on the land. These activities are the responsibility of the Alberta Forest Service and Public Lands Division for land administered by the Department of Forestry, Lands and Wildlife. Kananaskis Country Division is responsible for land administered by the Department of Recreation and Parks. ID#5 is responsible for issuing development permits and zoning.

A) PLANNING

MANAGEMENT INTENT

To identify the range of compatible and non-compatible activities for Kananaskis Country.

RESULTS EXPECTED	RESULTS ACHIEVED
Define for each RMA what are compatible and non-compatible activities.	Various industrial, commercial private and recreational proposals have been inquired about and/or submitted. Compatibility can be reviewed prior to the referral process.
A Spray Valley concept plan for use with proponents of private sector development.	A concept development detailing development zones and intensity of development that will be considered for the Spray Valley.
A backcountry management plan.	A draft backcountry plan for Peter Lougheed Provincial Park has been prepared. Potential policy approaches for managing backcountry campgrounds in Kananaskis Country have been prepared.
A backcountry management plan.	
Preparation of information on public safety issues.	A study of rockslides was prepared for most of RMA A. A map outlining areas of instability and rockslides was prepared.
	A map of river hazards for the Elbow River is in the drafting stage.
	An atlas of avalanche paths and zones has been compiled.

ANTICIPATED ACTIVITIES(1988/89)

A long term trail development plan is being prepared.

A map of river hazards for the Kananaskis River will be drafted.

Additional avalanche path mapping will be conducted.

B) FISH AND WILDLIFE PROTECTION

MANAGEMENT INTENT

To provide input to government referral systems dealing with applications for use of Crown lands in the planning area. Input provided will deal with protection of Fish and Wildlife resources and habitat and will indicate mitigative actions required. The intent is also to provide representation to local planning activities that deal with matters of land use control.

RESULTS EXPECTED	RESULTS ACHIEVED
Provide input to 32+ referral systems including those of the Department of	Input concerning protection of Fisheries and Wildlife habitat has been provided. Major

Forestry, Lands, and Wildlife as well as several other government departments. Also to provide input to Kananaskis Country Review Groups on matters concerning Fisheries and Wildlife.

activities requiring review have been oil and gas exploration and development, timber harvest, grazing referrals, Kananaskis Country developments and Olympic developments.

C) REFERRALS

MANAGEMENT INTENT

To ensure that all land use applications comply with the goals and objectives of the integrated resource plan.

RESULTS EXPECTED

Approval, approval with conditions, or rejection.

RESULTS ACHIEVED

A number of applications for Land Use Dispositions were referred through this plan during the past year. These include the following:

5 Miscellaneous Leases
5 Geophysical Programs
2 Mineral Surface Leases
2 Pipeline Agreements
5 License of Occupation Applications
6 Easement Applications
2 Protective and Consultative Notations
5 Herbicide Applications
6 Commercial Trail Riding Applications

Increases in proposals for commercial developments in the planning area have occurred in the past year.

ANTICIPATED ACTIVITIES(1988/89)

Some increase in referral activity is expected in the next year because of increased commercial development and recreational activity.

11. WILDLIFE

Wildlife is managed in this plan to provide a variety of recreational and commercial opportunities and to set future demands for viable and diverse wildlife populations for a full range of species including:

a) ungulates;
b) furbearers; and
c) scarce or extirpated species (such as fisher and others documented in the plan).

Wildlife resources are managed by the Fish and Wildlife Division, Alberta Forestry, Lands and Wildlife. Results are reported for the 1987/88 year.

A) WILDLIFE MANAGEMENT PROGRAM

MANAGEMENT INTENT

To manage self-sustaining populations of all wildlife species native to the area at population levels in harmony with long term carrying capacity of the habitat. Efforts will be made to provide use of these wildlife populations by public, in a manner which does not jeopardize the natural well-being, abundance and distribution of these wildlife resources and their ecological requirement and interrelationships.

RESULTS EXPECTED	RESULTS ACHIEVED
Implementation of Mt. Allen management plan.	Monitored sheep response to recreational/construction activities on Mt. Allen.
Mitigation plan for Highway #40 developed and implemented.	Implemented mitigation plan for Highway #40.
Monitoring continued on Sheep River Sanctuary sheep die-off recovery.	Monitoring mortality, reproduction and recruitment of sheep in Sheep River Sanctuary.

ANTICIPATED ACTIVITIES(1988/89)

Complete Mt. Allen management project.

Complete assessment of Highway #40 mitigation.

Complete Sheep River Sanctuary sheep monitoring project.

Complete assessment report on human/wildlife interactions.

B) WILDLIFE HABITAT ENHANCEMENT PROGRAM

MANAGEMENT INTENT

To develop and implement enhancement projects which will help to increase the carrying capacity of wildlife habitat. Emphasis will be given to enhancing ungulate winter ranges.

RESULTS EXPECTED	RESULTS ACHIEVED
(1987/88) Completion of Wedge Mtn. Sheep River and Mt. Allan range enhancement through burning of brush piles left on site.	(1987/88) Piles were burned at Wedge and Sheep River, however piles at Mt. Allan and Wind Valley remain to be burned. Lack of snow and heavy winds (plus the Olympics) have prevented completion to date.
Completion of the proposed Mist Creek burn in the fall of 1987.	The Mist Creek burn did not proceed as planned and is now scheduled for the spring of 1988.

ANTICIPATED ACTIVITIES(1988/89)

Completion of pile burning at Mt. Allan and Wind Valley.

Completion of Mist Creek burn in spring of 1988.

Other wildlife habitat enhancement projects as identified in the next 6 months.

12. TRANSPORTATION

Alberta Transportation is responsible for the development and maintenance of roads in Kananaskis Country. Some assistance regarding avalanche control is provided by Recreation and Parks.

A) ENVIRONMENTAL MANAGEMENT

MANAGEMENT INTENT

Roads will be managed to minimize environmental damage.

RESULTS EXPECTED	RESULTS ACHIEVED
Roads reviewed for environmental concerns and corrective action taken.	Construction and road salting were causing trees to die along roads and the maintenance compound in Peter Lougheed Provincial Park. These trees were removed. A review of methods to reduce the amount of salt and the containment of runoff from salt storage yards was undertaken.

ANTICIPATED ACTIVITIES(1988/89)

A method to contain salt runoff in the maintenance yard is proposed as funding becomes available.

Berming and vegetation screening of the transportation yard will occur.

B) SAFETY

MANAGEMENT INTENT

Roads will be managed to ensure a high level of public safety.

RESULTS EXPECTED	RESULTS ACHIEVED
Avalanche control will occur for paths in the Spray Lakes/Canmore Hill areas.	Avalanche path monitoring has occurred in past years. Control capability was implemented this year. Rockslide study results are under review.

ANTICIPATED ACTIVITIES(1988/89)

Avalanche control will be upgraded with climate station instrumentation.

Results of rockslide study will be implemented.

13. SUMMARY

The implementation of the Kananaskis Country Integrated Resource Plan is on schedule. Key highlights of the implementation are as follows:

1) Protection - The creation of several Natural Areas throughout Kananaskis Country.

- The implementation of the Mt. Allen bighorn sheep management plan.

2) Management - The stocking of over 100000 trout.

- The creation of over 100 km of new trails for biking, hiking, skiing and equestrian use.

- The maintenance of the 1977 stocking level for domestic cattle.

3) Development - The completion of the facilities for the 1988 Calgary Winter Olympics.

- The completion of the Kananaskis Village at Ribbon Creek.

If you have any comments relating to this report please bring them to the attention of:

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